



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-25331-1

Job Description: STORM WATER

For:

Cargill Salt

7220 Central Ave

Newark, CA 94560

Attention: Mr. Sean Riley

A handwritten signature in black ink, appearing to read "D Sharma".

Approved for release,
Dimple Sharma
Project Manager I
1/25/2010 6:19 PM

Dimple Sharma

Project Manager I

dimple.sharma@testamericainc.com

01/25/2010

Revision: 1

CA ELAP Certification # 2496

The Chain(s) of Custody are included and are an integral part of this report.

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A trip blank is required to be provided for volatile analyses. If trip blank results are not included in the report, either the trip blank was not submitted or requested to be analyzed.

TestAmerica Laboratories, Inc.

TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566

Tel (925) 484-1919 Fax (925) 600-3002 www.testamericainc.com

Job Narrative
720-25331-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

General Chemistry

Method(s) 9040B: CCV was not recorded every 10 Samples per SOP. Ending CCV still passed and samples are being considered acceptable.

No other analytical or quality issues were noted.

Organic Prep

Method(s) 1664A: System failure during automated extraction process. The sample 720-25331-1 was lost. No duplicate sample was provided. unable to analyze.

No other analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Cargill Salt

Job Number: 720-25331-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-25331-1	REDWOOD CITY				
Specific Conductance		60	10	umhos/cm	120.1
pH		5.34	0.100	SU	9040B
Total Suspended Solids		10	10	mg/L	SM 2540D

METHOD SUMMARY

Client: Cargill Salt

Job Number: 720-25331-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Conductivity, Specific Conductance	TAL SF	MCAWW 120.1	
pH	TAL SF	SW846 9040B	
Solids, Total Suspended (TSS)	TAL SF	SM SM 2540D	

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: Cargill Salt

Job Number: 720-25331-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-25331-1	REDWOOD CITY	Water	01/18/2010 0900	01/18/2010 1537

Analytical Data

Client: Cargill Salt

Job Number: 720-25331-1

General Chemistry

Client Sample ID: REDWOOD CITY

Lab Sample ID: 720-25331-1

Date Sampled: 01/18/2010 0900

Client Matrix: Water

Date Received: 01/18/2010 1537

Analyte	Result	Qual	Units	RL	Dil	Method
Specific Conductance	60		umhos/cm	10	1.0	120.1

Analysis Batch: 720-64514

Date Analyzed: 01/19/2010 1545

Analyte	Result	Qual	Units	RL	Dil	Method
pH	5.34		SU	0.100	1.0	9040B

Analysis Batch: 720-64632

Date Analyzed: 01/18/2010 1945

Total Suspended Solids

10

mg/L

10

1.0

SM 2540D

Analysis Batch: 720-64507

Date Analyzed: 01/19/2010 1426

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description
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Quality Control Results

Client: Cargill Salt

Job Number: 720-25331-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:720-64507					
LCS 720-64507/2	Lab Control Sample	T	Water	SM 2540D	
LCSD 720-64507/3	Lab Control Sample Duplicate	T	Water	SM 2540D	
MB 720-64507/1	Method Blank	T	Water	SM 2540D	
720-25331-1	REDWOOD CITY	T	Water	SM 2540D	
Analysis Batch:720-64514					
LCS 720-64514/3	Lab Control Sample	T	Water	120.1	
LCSD 720-64514/4	Lab Control Sample Duplicate	T	Water	120.1	
MB 720-64514/2	Method Blank	T	Water	120.1	
720-25331-1	REDWOOD CITY	T	Water	120.1	
Analysis Batch:720-64632					
LCS 720-64632/1	Lab Control Sample	T	Water	9040B	
720-25329-A-1 DU	Duplicate	T	Water	9040B	
720-25331-1	REDWOOD CITY	T	Water	9040B	

Report Basis

T = Total

Quality Control Results

Client: Cargill Salt

Job Number: 720-25331-1

Method Blank - Batch: 720-64514

Method: 120.1

Preparation: N/A

Lab Sample ID: MB 720-64514/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/19/2010 1545
Date Prepared: N/A

Analysis Batch: 720-64514
Prep Batch: N/A
Units: umhos/cm

Instrument ID: Orion
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Specific Conductance	ND		10

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 720-64514

Method: 120.1

Preparation: N/A

LCS Lab Sample ID: LCS 720-64514/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/19/2010 1545
Date Prepared: N/A

Analysis Batch: 720-64514
Prep Batch: N/A
Units: umhos/cm

Instrument ID: Orion
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-64514/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/19/2010 1545
Date Prepared: N/A

Analysis Batch: 720-64514
Prep Batch: N/A
Units: umhos/cm

Instrument ID: Orion
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Specific Conductance	102	103	90 - 110	1	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Cargill Salt

Job Number: 720-25331-1

Lab Control Sample - Batch: 720-64632

Method: 9040B
Preparation: N/A

Lab Sample ID: LCS 720-64632/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2010 0817
Date Prepared: N/A

Analysis Batch: 720-64632
Prep Batch: N/A
Units: SU

Instrument ID: Corning pH
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH	7.00	6.970	100	99 - 101	

Duplicate - Batch: 720-64632

Method: 9040B
Preparation: N/A

Lab Sample ID: 720-25329-A-1 DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/18/2010 1905
Date Prepared: N/A

Analysis Batch: 720-64632
Prep Batch: N/A
Units: SU

Instrument ID: Corning pH
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH	6.66	6.670	0	5	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Cargill Salt

Job Number: 720-25331-1

Method Blank - Batch: 720-64507

Method: SM 2540D

Preparation: N/A

Lab Sample ID: MB 720-64507/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/19/2010 1426
Date Prepared: N/A

Analysis Batch: 720-64507
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Result	Qual	RL
Total Suspended Solids	ND		10

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 720-64507

Method: SM 2540D

Preparation: N/A

LCS Lab Sample ID: LCS 720-64507/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/19/2010 1426
Date Prepared: N/A

Analysis Batch: 720-64507
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

LCSD Lab Sample ID: LCSD 720-64507/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/19/2010 1426
Date Prepared: N/A

Analysis Batch: 720-64507
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Total Suspended Solids	93	91	80 - 120	2	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Pleasanton, CA 94566
phone 925-484-1919 fax 925-484-1096

**SEVERN
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121725
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Login Sample Receipt Check List

Client: Cargill Salt

Job Number: 720-25331-1

Login Number: 25331

List Source: TestAmerica San Francisco

Creator: Mullen, Joan

List Number: 1

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-27577-1

Job Description: Redwood City

For:

Cargill Salt

7220 Central Ave

Newark, CA 94560

Attention: Mr. Sean Riley

Suninder Sidhu

Approved for release.
Suninder Sidhu
Customer Service Manager
4/28/2010 4:57 PM

Designee for
Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com
04/28/2010

CA ELAP Certification # 2496

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Tel (925) 484-1919 Fax (925) 600-3002 www.testamericainc.com

Job Narrative
720-27577-1

Comments

No additional comments.

Receipt

No bottle received for Oil & Grease analysis, did not log for Oil & Grease. Received 1 250ml Poly preserved with HNO₃, no metals analysis requested on COC.

All other samples were received in good condition within temperature requirements.

General Chemistry

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Cargill Salt

Job Number: 720-27577-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-27577-1	REDWOOD CITY				
pH		5.85	0.100	SU	9040B
Specific Conductance		100	10	umhos/cm	SM 2510B
Total Suspended Solids		17	10	mg/L	SM 2540D

METHOD SUMMARY

Client: Cargill Salt

Job Number: 720-27577-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
pH	TAL SF	SW846 9040B	
Conductivity, Specific Conductance	TAL SF	SM SM 2510B	
Solids, Total Suspended (TSS)	TAL SF	SM SM 2540D	

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: Cargill Salt

Job Number: 720-27577-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-27577-1	REDWOOD CITY	Water	04/21/2010 1100	04/21/2010 1745

Analytical Data

Client: Cargill Salt

Job Number: 720-27577-1

General Chemistry

Client Sample ID: REDWOOD CITY

Lab Sample ID: 720-27577-1

Date Sampled: 04/21/2010 1100

Client Matrix: Water

Date Received: 04/21/2010 1745

Analyte	Result	Qual	Units	RL	Dil	Method
Total Suspended Solids	17		mg/L	10	1.0	SM 2540D

Analysis Batch: 720-70189

Date Analyzed: 04/24/2010 1424

Analyte	Result	Qual	Units	RL	Dil	Method
pH	5.85		SU	0.100	1.0	9040B

Analysis Batch: 720-69958

Date Analyzed: 04/22/2010 0031

Specific Conductance 100

umhos/cm

10

1.0

SM 2510B

Analysis Batch: 720-70164

Date Analyzed: 04/23/2010 1736

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description
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Quality Control Results

Client: Cargill Salt

Job Number: 720-27577-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:720-69958					
LCS 720-69958/1	Lab Control Sample	T	Water	9040B	
720-27564-A-1 DU	Duplicate	T	Water	9040B	
720-27577-1	REDWOOD CITY	T	Water	9040B	
Analysis Batch:720-70164					
LCS 720-70164/3	Lab Control Sample	T	Water	SM 2510B	
LCSD 720-70164/4	Lab Control Sample Duplicate	T	Water	SM 2510B	
MB 720-70164/2	Method Blank	T	Water	SM 2510B	
720-27577-1	REDWOOD CITY	T	Water	SM 2510B	
Analysis Batch:720-70189					
LCS 720-70189/2	Lab Control Sample	T	Water	SM 2540D	
LCSD 720-70189/3	Lab Control Sample Duplicate	T	Water	SM 2540D	
MB 720-70189/1	Method Blank	T	Water	SM 2540D	
720-27577-1	REDWOOD CITY	T	Water	SM 2540D	

Report Basis

T = Total

Quality Control Results

Client: Cargill Salt

Job Number: 720-27577-1

Duplicate - Batch: 720-69958

Method: 9040B
Preparation: N/A

Lab Sample ID: 720-27564-A-1 DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/22/2010 0027
Date Prepared: N/A

Analysis Batch: 720-69958
Prep Batch: N/A
Units: SU

Instrument ID: Orion pH Probe
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH	12.8	12.96	1	5	

Quality Control Results

Client: Cargill Salt

Job Number: 720-27577-1

Method Blank - Batch: 720-70164

Method: SM 2510B

Preparation: N/A

Lab Sample ID: MB 720-70164/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/23/2010 1736
Date Prepared: N/A

Analysis Batch: 720-70164
Prep Batch: N/A
Units: umhos/cm

Instrument ID: Cond Meter
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Specific Conductance	ND		10

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 720-70164

Method: SM 2510B

Preparation: N/A

LCS Lab Sample ID: LCS 720-70164/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/23/2010 1736
Date Prepared: N/A

Analysis Batch: 720-70164
Prep Batch: N/A
Units: umhos/cm

Instrument ID: Cond Meter
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-70164/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/23/2010 1736
Date Prepared: N/A

Analysis Batch: 720-70164
Prep Batch: N/A
Units: umhos/cm

Instrument ID: Cond Meter
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Specific Conductance	110	110	90 - 110	0	20		

Quality Control Results

Client: Cargill Salt

Job Number: 720-27577-1

Method Blank - Batch: 720-70189

Method: SM 2540D

Preparation: N/A

Lab Sample ID: MB 720-70189/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/24/2010 1424
Date Prepared: N/A

Analysis Batch: 720-70189
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Result	Qual	RL
Total Suspended Solids	ND		10

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 720-70189

Method: SM 2540D

Preparation: N/A

LCS Lab Sample ID: LCS 720-70189/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/24/2010 1424
Date Prepared: N/A

Analysis Batch: 720-70189
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

LCSD Lab Sample ID: LCSD 720-70189/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/24/2010 1424
Date Prepared: N/A

Analysis Batch: 720-70189
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Total Suspended Solids	91	96	69 - 117	5	20		

Pleasanton, CA 94566
phone 925.484.1919 fax 925.600.3002

Chain of Custody Record

TestAmerica Laboratories, Inc.

[illegible]

Login Sample Receipt Check List

Client: Cargill Salt

Job Number: 720-27577-1

Login Number: 27577
 Creator: Thomas, Bryan
 List Number: 1

List Source: TestAmerica San Francisco

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	False	SEE NCM
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	False	SEE NCM
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	